WHAT IS CLAIMED IS:

l	1. A vehicle tire monitoring system for use with a wheel that is
2	configured to have a tire mounted thereon, the system comprising:
3	a sensor assembly mountable on the wheel, the sensor assembly
1	including a first sensor for detecting a tire parameter and a second sensor for
5	detecting proximity of the sensor assembly to the wheel based on the position of the
ó	second sensor relative to the wheel.
l	2. The vehicle tire monitoring system of claim 1 wherein the
2	sensor assembly is disposed on the wheel using an adhesive.
l	3. The vehicle tire monitoring system of claim 1 wherein the first
2	and second sensors are mounted on a circuit board.
l	4. The vehicle tire monitoring system of claim 1 further
2	comprising a protective cover disposed around the first and second sensors.
l	5. The vehicle tire monitoring system of claim 1 wherein the
2	sensor assembly is disposed on a drop center portion of the wheel.
1	6. The vehicle tire monitoring system of claim 1 wherein the
2	second sensor is a hall effect sensor that detects detachment of the sensor assembly
3	from the wheel based on the position of the second sensor relative to a magnet
1	positionable proximate to the wheel.
l	7. The vehicle tire monitoring system of claim 7 wherein an
2	insulator is disposed between the magnet and the wheel to inhibit demagnetization
3	of the magnet.
l	8. The vehicle tire monitoring system of claim 7 wherein the
2	sensor assembly further comprises a bracket for positioning the second sensor
3	relative to the magnet.

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l	9. The vehicle tire monitoring system of claim 8 wherein the
2	bracket includes an aperture located between the second sensor and the magnet.
1	10. A vehicle tire monitoring system for use with a wheel that is
2	configured to have a tire mounted thereon, the system comprising:
3	a sensor assembly mountable on the tire, the sensor assembly including
4	a first sensor for detecting a tire parameter and a second sensor for detecting
5	proximity of the sensor assembly to the tire based on the position of the second
5 5	sensor relative to the tire.
,	sensor relative to the tire.
l	11. The vehicle tire monitoring system of claim 10 wherein the
2	sensor assembly is disposed on the tire using an adhesive.
l	12. The vehicle tire monitoring system of claim 10 wherein the
2	first and second sensors are mounted on a circuit board.
l	13. The vehicle tire monitoring system of claim 10 further
2	comprising a protective cover disposed around the first and second sensors.
1	14. The vehicle tire monitoring system of claim 10 wherein the
2	second sensor is a hall effect sensor that detects detachment of the sensor assembly
3	from the tire based on the position of the second sensor relative to a magnet
4	positionable proximate to the tire.
1	15. The vehicle tire monitoring system of claim 14 wherein an the
2	magnet is disposed on the tire using an adhesive.
l	16. The vehicle tire monitoring system of claim 14 wherein the
2	sensor assembly further comprises a bracket for positioning the second sensor relative
3	to the magnet.

1	17. The vehicle tire monitoring system of claim 16 wherein the
2	bracket includes an aperture located between the second sensor and the magnet.
1	18. A system for monitoring a pneumatic tire disposed on a vehicle
2	wheel, wherein the pneumatic tire and the vehicle wheel cooperate to define a
3	chamber surface, the system comprising:
4	a magnet disposable on the chamber surface; and
5	a sensor assembly disposable on the chamber surface proximate to the
6	magnet, the sensor assembly including a pressure sensor for sensing air pressure in
7	the tire and an attachment sensor;
8	wherein the attachment sensor is configured to detect attachment of the
9	sensor assembly to the chamber surface based on the position of the attachment
10	sensor relative to the magnet.
1	19. The system of claim 18 wherein the sensor assembly further
2	comprises a housing that receives the attachment sensor and the pressure sensor.
1	20. The system of claim 19 wherein the housing is disposed on a
2	bracket attached to the chamber surface.